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# Organometallic Macrocycles and Their Applications

Guest Editor:

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Deadline for manuscript submissions:
**closed (30 June 2018)**

## Message from the Guest Editor

Dear Colleagues,

Apart from their inherent beauty, cyclic structures can exhibit properties and functions that surpass those of linear architectures constructed from the same constituents. Macrocycles incorporating transition metal-coligand entities as integral building blocks offer particularly fascinating prospects. This is due to their structure-directing abilities, as well as the preferred coordination numbers and coordination geometries. The field of metallamacrocyclic complexes has, meanwhile, matured beyond the directed synthesis and characterization of such architectures to explore and exploit their physical properties. Examples are electron transfer from the coordination centers or the bridging ligands or optical charge transfer between these constituents with forays into the field of molecule-based electronics. Other work employs the sizable interior cavities for selective host–guest chemistry with emerging applications as structurally adaptive and stimuli-responsive materials or in catalysis, biology and medicine. This Special Issue of *Inorganics* highlights the many facets of metallamacrocyclic chemistry.

Prof. Dr. Rainer Winter

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## Message from the Editor-in-Chief

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